## AMENDMENTS TO THE CLAIMS

What is claimed as being new and desired to be protected by LETTERS PATENT of the United States is as follows:

- 1. (Original) An illumination system for providing efficient and highly recognizable devices for producing light comprising in combination:
- a thin circular plate comprised of thermally conductive material having an upper surface and a lower surface;
- a plurality of rectilinear "L" shaped thermally conductive circuit boards each having an internal face, an external face, a pair of parallel side edges, a vertical portion and a horizontal portion and a bend there between, with the external face of the vertical portion having a means for attachment of at least one LED, and the horizontal portion having a means for attachment to the plate, the circuit boards being arranged in a configuration with adjacent parallel side edges separated from each other;

at least one light emitting diode functioning as a light emitter being coupled to the vertical portion of the circuit board with means to maximize heat transfer;

an optical lens of a generally cylindrical configuration formed as a dome having a closed top end and an open bottom end and comprised of a transparent material, the open bottom end being configured to lie adjacent to the upper surface of the plate;

a mounting base of a generally cylindrical configuration with an open top part, a closed bottom part and a side face there around, the top part having a lip adapted to lie adjacent the lower surface of the plate with an aperture and flange extending from the mounting base;

a plurality of rivets adapted to couple together the circuit boards and the plate and the base;

a retainer ring adapted to couple together the lens and the plate and the mounting base; and

an external electrical source operatively coupled to the system.

- 2. (Currently Amended) An illumination system comprising:
  a mounting plate;
- a plurality of thermally conductive circuit boards in thermal contact with the mounting plate;

a plurality of light emitting diodes electrically and thermally communicating with the circuit boards;

an optical lens formed as a translucent dome covering the circuit boards and light emitting diodes;

a base operatively coupled to the mounting plate and lens;

an alternating current to direct current power converter;

and

an external electrical source to provide <u>alternating current</u> that is converted to direct current power so as to provide power to the system.

- 3. (Currently Amended) The system as set forth in claim 2 wherein the base is of a generally cylindrical configuration with an open top part, a closed bottom part and a side face there around, the top part having a lip adapted to lie adjacent the lower surface of the plate with [[a]] an entrance aperture and flange extending from the mounting base.
  - 4. (Currently Amended) An illumination system comprising: a mounting plate;
- a plurality of thermally conductive circuit boars boards in thermal contact with the mounting plate;

at least one pair of light emitting diodes, with each pair being operative operatically coupled to a circuit board wherein the diodes are adjacently disposed and electrically connected in a parallel circuit configuration;

an optical lens formed as a translucent dome, the lens covering the circuit boards and light emitting diodes; and

an <u>alternating current</u> electrical power means <u>being</u>

<u>converted to provide</u> <del>providing</del> a constant current to each light emitting diode pair.

5. (Original) The system as set forth in Claim 4 wherein the base has a generally cylindrical configuration with an open

top part, a closed bottom part and a side face there around, the top part having a lip configured to lie adjacent the lower surface of the plate with an entrance aperture and flange extending from the mounting base.

- 6. (Original) The system as set forth in Claim 4 wherein the system further comprises a plurality of conductive circuit boards and plurality of pairs of light emitting diodes.
- 7. (Currently Amended) The system as set forth in Claim 4 wherein the system further comprises the a Fresnel lens, the lens having a vertical position with the dome oriented upwards, with the lens producing a substantially Fresnel-type beam covering 360 degrees azimuthally, and producing at least 32.5 candela over a 10 degree beam band, centered between 4 and 20 degrees above a horizontal plane azimuthally uniform optical output having a narrowed vertical extent and a peak output in the range extending from 0 degrees to 50 degrees elevation.